



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(65641Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A624110
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0093623	PCA0103615	---
Sample Date		Client Info		21 Mar 2024	20 Dec 2023	---
Machine Age	mls	Client Info		65820	36929	---
Oil Age	mls	Client Info		33680	36929	---
Filter Age	mls	Client Info		33680	36929	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	37	70	---
Chromium	ppm	ASTM D5185m	>5	3	4	---
Nickel	ppm	ASTM D5185m	>2	1	1	---
Titanium	ppm	ASTM D5185m		32	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>30	51	126	---
Lead	ppm	ASTM D5185m	>30	<1	0	---
Copper	ppm	ASTM D5185m	>150	70	▲ 270	---
Tin	ppm	ASTM D5185m	>5	3	6	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

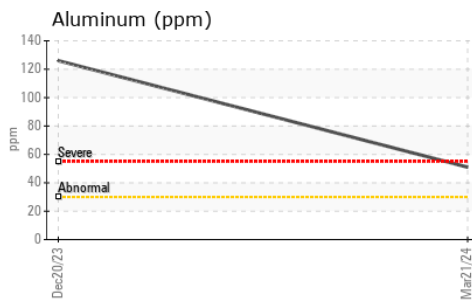
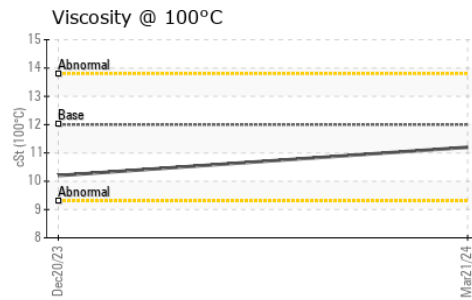
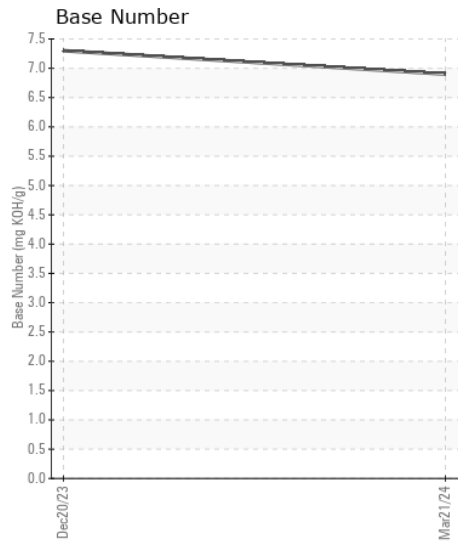
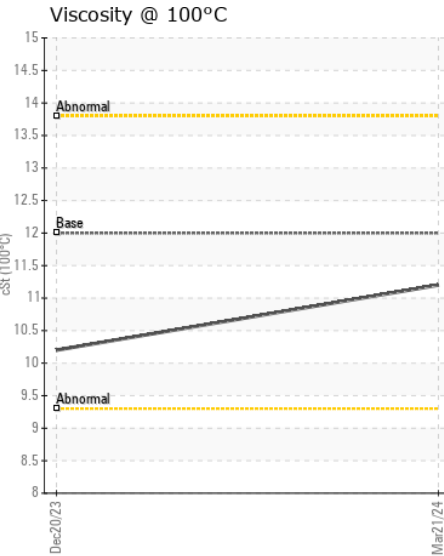
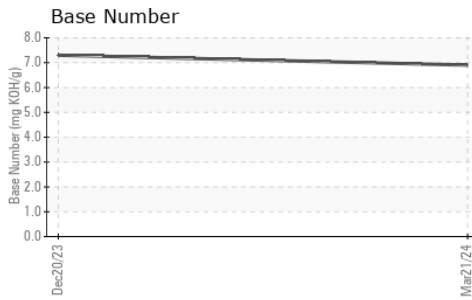
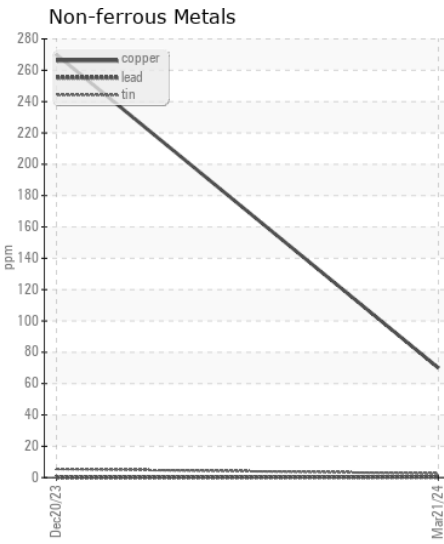
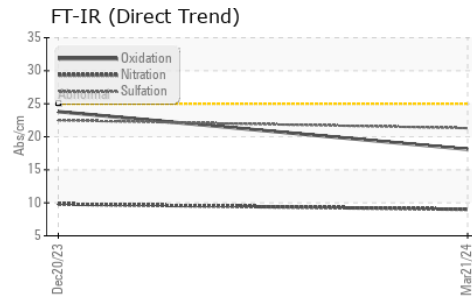
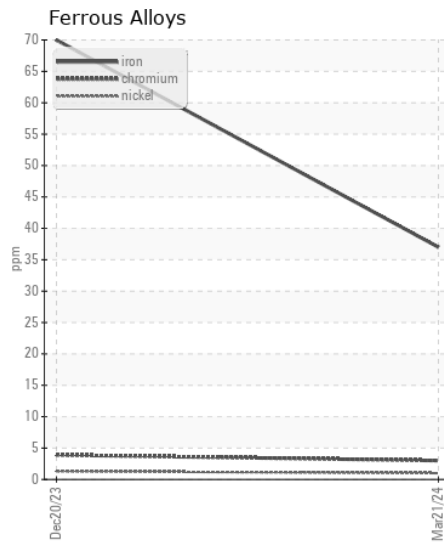
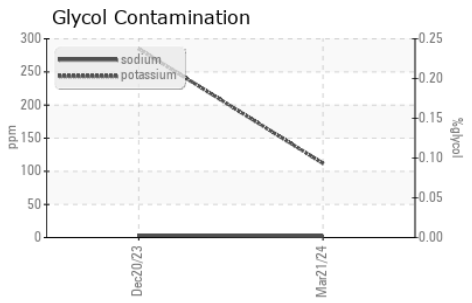
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>20	7	8	---
Potassium	ppm	ASTM D5185m	>20	112	285	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	22.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	4	---
Boron	ppm	ASTM D5185m	2	38	37	---
Barium	ppm	ASTM D5185m	0	1	0	---
Molybdenum	ppm	ASTM D5185m	50	38	49	---
Manganese	ppm	ASTM D5185m	0	2	4	---
Magnesium	ppm	ASTM D5185m	950	635	516	---
Calcium	ppm	ASTM D5185m	1050	1518	1625	---
Phosphorus	ppm	ASTM D5185m	995	965	695	---
Zinc	ppm	ASTM D5185m	1180	1149	854	---
Sulfur	ppm	ASTM D5185m	2600	2991	2059	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	23.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.3	---
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	10.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0093623
Lab Number : 06149890
Unique Number : 10979968
Test Package : FLEET

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Don Baldrige

Transervice - Shop 1365 - Berkeley-Nazareth
 6813 Chrisphalt Drive
 Bath Borough, PA
 US 18014
 Contact: Stephen Mackes
 smackes@transervice.com
 T: (610)837-8103
 F: (610)837-8105

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)